

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/533,906  
Source: TFWO  
Date Processed by STIC: 11/01/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

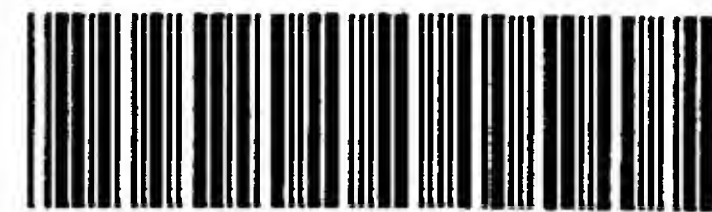
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**<http://www.uspto.gov/ebs/efs/downloads/documents.htm>**> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>10/533,906</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics _____ Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor <b>after</b> creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line <b>not exceed</b> 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino _____ Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do <b>not</b> use tab codes between numbers; use <b>space characters</b> , instead.	
4 _____ Non-ASCII	The submitted file was <b>not</b> saved in ASCII(DOS) text, as <b>required</b> by the Sequence Rules. Please <b>ensure your subsequent submission is saved in ASCII text</b> .	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. <b>Per Sequence Rules, each n or Xaa can only represent a single residue.</b> Please present the <b>maximum</b> number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ PatentIn 2.0 _____ "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. <b>This applies to the mandatory &lt;220&gt;-&lt;223&gt; sections for Artificial or Unknown sequences.</b>	
7 _____ Skipped Sequences _____ (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for <b>each</b> skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to <b>include</b> the skipped sequences.	
8 _____ Skipped Sequences _____ (NEW RULES)	Sequence(s) _____ missing. If <b>intentional</b> , please insert the following lines for <b>each</b> skipped sequence. <210> sequence id number <400> sequence id number 000	
9 _____ Use of n's or Xaa's _____ (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of <b>n</b> or <b>Xaa</b> , and which residue <b>n</b> or <b>Xaa</b> represents.	
10 _____ Invalid <213> _____ Response	Per 1.823 of Sequence Rules, the only <b>valid</b> <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is <b>required</b> when <213> response is Unknown or is Artificial Sequence. (see item 11 below)	
11 _____ Use of <220>	<del>Sequence(s) _____ missing the &lt;220&gt; "Feature" and associated numeric identifiers and responses. Use of &lt;220&gt; to &lt;223&gt; is MANDATORY if &lt;213&gt; "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in &lt;220&gt; to &lt;223&gt; section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules</del>	
12 _____ PatentIn 2.0 _____ "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n/Xaa	"n" can <b>only</b> represent a single <u>nucleotide</u> ; "Xaa" can <b>only</b> represent a single <u>amino acid</u>	



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/533,906

DATE: 11/01/2006

TIME: 12:17:23

Input Set : A:\PTO.SS.txt

Output Set: N:\CRF4\11012006\J533906.raw

3 <110> APPLICANT: Skanemejerier AB  
 5 <120> TITLE OF INVENTION: NEW ENZYME AND ITS USE  
 7 <130> FILE REFERENCE: 75086  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/533,906  
 C--> 9 <141> CURRENT FILING DATE: 2006-03-30  
 9 <150> PRIOR APPLICATION NUMBER: US 60/320,139  
 10 <151> PRIOR FILING DATE: 2003-04-24  
 12 <150> PRIOR APPLICATION NUMBER: US 60/481,598  
 13 <151> PRIOR FILING DATE: 2003-11-05  
 15 <160> NUMBER OF SEQ ID NOS: 18  
 17 <170> SOFTWARE: PatentIn version 3.2

Does Not Comply  
 Corrected Diskette Needed

(pg-1-5)

## ERRORED SEQUENCES

145 <210> SEQ ID NO: 2  
 146 <211> LENGTH: 1701  
 147 <212> TYPE: DNA  
 148 <213> ORGANISM: Unknown  
 150 <220> FEATURE:  
 151 <223> OTHER INFORMATION: Unknown  
 153 <400> SEQUENCE: 2

E--> 154 gtccatctgg aaggcccagc atgagaggcc cggccgtcct cctcactgtg gctctggcca  
 155 60  
 E--> 157 cgctcctggc tcccggggcc ggagcaccgg tacaaagtca gggctcccag aacaagctgc  
 158 120  
 E--> 160 tcctggtgtc cttegacggc ttccgctgga actacgacca ggacgtggac accccaacc  
 161 180  
 E--> 163 tggacgccat ggcccagagc ggggtgaagg cacgtacat gacccccgcc tttgtcacca  
 164 240  
 E--> 166 tgaccagccc ctgccacttc accctggtca cgggcaaata tatcgagaac cacgggggtg  
 167 300  
 E--> 169 ttcacaacat gtactacaac accaccagca aggtgaagct gccctaccac gccacgctgg  
 170 360  
 E--> 172 gcatccagag gtggtgggac aacggcagcg tgcccatctg gatcacagcc cagaggcagg  
 173 420  
 E--> 175 gcctgagggc tggctccttc ttctaccgga gcggaacgt cacctaccaa ggggtggctg  
 176 480  
 E--> 178 tgacgcggag ccggaagaa ggcacgcac acaactacaa aatgagacg gagtggagag  
 179 540  
 E--> 181 cgaacatcga cacagtgatg gcgtgggttc cagaggagga cctggatctg gtcacactct  
 182 600  
 E--> 184 acttcgggga gccggactcc acgggccaca ggtacggccc cgagtcctcg gagaggagg

Invalid Response  
 of 12137 Responses are  
 Artificial or unknown.  
 pls Explain  
 the Source  
 of genetic  
 material.  
 See Item  
 11 on  
 Error  
 Summary  
 sheet.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/533,906

DATE: 11/01/2006

TIME: 12:17:23

Input Set : A:\PTO.SS.txt

Output Set: N:\CRF4\11012006\J533906.raw

```

185 660
E--> 187 agatggtgcg gcaggtggac cggaccgtgg gctacctccg ggagagcatc gcgcgcaacc
188 720
E--> 190 acctcacaga ccgcctcaac ctgatcatca catccgacca cggcatgacg accgtggaca
191 780
E--> 193 aacgggctgg cgacctggtt gaattccaca agttcccca cttcaccttc cgggacatcg
194 840
E--> 196 agtttgagct cctggactac ggaccaaacg ggatgctgct ccctaaagaa gggaggctgg
197 900
E--> 199 agaaggtgta cgatgccctc aaggacgcc accccaagct ccacgtctac aagaaggagg
200 960
E--> 202 cgttccccga ggccttcac tacgccaaca accccagggt cacaccctg ctgatgtaca
203 1020
E--> 205 gcgaccttgg ctacgtcatc catgggagaa ttaacgtcca gttcaacaat ggggagcacg
206 1080
E--> 208 gctttgacaa caaggacatg gacatgaaga ccatcttccg cgctgtgggc cctagcttca
209 1140
E--> 211 gggcgggcct ggaggtggag ccctttgaga gcgtccacgt gtacgagctc atgtgccggc
212 1200
E--> 214 tgctgggcat cgtgcccagag gccaacgatg ggcacctagc tactctgctg cccatgctgc
215 1260
E--> 217 acacagaatc tgctcttccg cctgatgctc tgctggtcgc ggacggaccc tgctcccca
218 1320
E--> 220 gcttatccca ggccagaggc tgcattgccac tgtccccggc agcgccaacc cctgcttggc
221 1380
E--> 223 tgttatggtg ctggtaataa gcctgcagcc caggtccaaa gccccggcg agccggtccc
224 1440
E--> 226 ataaccggcc cctgcccct gccctgctc ctgctcctc ccttcgggac cctcctcct
227 1500
E--> 229 gcaaaacccg ctcccgaagc ggcgctgccg tctgcagcca cgcgggggag cgcgggagtc
230 1560
E--> 232 ttctgcgggc gctggaacct gcagaccg cctcggtcag ctgggagggg cccgccccgg
233 1620
E--> 235 cacaagcac ccatgggaat aaaggccaag ccgcgacagt cagcaaaaaa aaaaaaaaaa
236 1680
E--> 238 aaaaaaaaaa aaaaaaaaaa a
239 1701

```

7  
780  
840  
900  
960  
1020  
1080

Same Error

```

386 <210> SEQ ID NO: 5
387 <211> LENGTH: 1878
388 <212> TYPE: DNA
389 <213> ORGANISM: Unknown
391 <220> FEATURE:
392 <223> OTHER INFORMATION: Unknown
395 <220> FEATURE:
396 <221> NAME/KEY: misc_feature
397 <222> LOCATION: (905)..(905)
398 <223> OTHER INFORMATION: n is a, c, g, or t
400 <400> SEQUENCE: 5
E--> 401 gtccatctgg aaggcccagc atgagaggcc cggccgtcct cctcactgtg gctctggcca

```

7 Same

## RAW SEQUENCE LISTING

DATE: 11/01/2006

PATENT APPLICATION: US/10/533,906

TIME: 12:17:24

Input Set : A:\PTO.SS.txt

Output Set: N:\CRF4\11012006\J533906.raw

402 60  
E--> 404 cgctcctggc tcccggggcc ggagcaccgg tacaaagtca gggctcccag aacaagctgc 120  
405 120  
E--> 407 tcctggtgtc cttegacggc ttccgctgga actacgacca ggacgtggac acccccaacc 180  
408 180  
E--> 410 tggacgccat ggcccagagc ggggtgaagg cacgctacat gacccccgcc tttgtcacca 240  
411 240  
E--> 413 tgaccagccc ctgccacttc accctgggtc cgggcaaata tatcgagaac cacgggggtgg 300  
414 300  
E--> 416 ttcaacaacat gtactacaac accaccagca aggtgaagct gccctaccac gccacgctgg 360  
417 360  
E--> 419 gcattccagag gtggtgggac aacggcagcg tgcccatctg gatcacagcc cagaggcagg 420  
420 420  
E--> 422 gcctgagggc tggctccttc ttctaccggc gcgggaacgt cacctaccaa ggggtggctg 480  
423 480  
E--> 425 tgacgcggag ccggaagaa ggcattgcac acaactacaa aatgagacg gagggtgagag 540  
426 540  
E--> 428 cgaacatcga cacagtgatg gcgtggttca cagaggagga cctggatctg gtcacactct 600  
429 600  
E--> 431 acttcgggga gccggactcc acgggccaca ggtacggccc cgagtccccg gagaggaggg 660  
432 660  
E--> 434 agatggtgcg gcaggtggac cggaccgtgg gctacctccg ggagagcatc gcgcgcaacc 720  
435 720  
E--> 437 acctcacaga ccgcctcaac ctgatcatca catccgacca cggcatgacg accgtggaca 780  
438 780  
E--> 440 aacgggctgg cgacctggtt gaattccaca agttccccaa cttcaccttc cgggacatcg 840  
441 840  
E--> 443 agtttgagct cctggactac ggaccaaacg ggatgctgct ccctaaagaa gggaggctgg 900  
444 900  
E--> 446 agaangtgta cgatgccctc aaggacgcc accccaagct ccacgtctac aagaaggagg 960  
447 960  
E--> 449 cgttccccga ggccttcac tacgccaaca accccagggt cacaccctg ctgatgtaca 1020  
450 1020  
E--> 452 gcgaccttgg ctacgtcatc catgggagaa ttaacgtcca gttcaacaat ggggagcacg 1080  
453 1080  
E--> 455 gctttgacaa caaggacatg gacatgaaga ccatcttcg cgctgtgggc cctagcttca 1140  
456 1140  
E--> 458 gggcgggcct ggaggtggag ccctttgaga gcgtccacgt gtacgagctc atgtgccggc 1200  
459 1200  
E--> 461 tgctgggcat cgtgcccag gccaacgatg ggcacctagc tactctgctg cccatgctgc 1260  
462 1260  
E--> 464 acacagaatc tgctcttcg cctgatggaa ggcctactct cctgcccag ggaagatctg 1320  
465 1320  
E--> 467 ctctcccgcc cagcagcagg cccctcctcg tgatgggact gctggggacc gtgattcttc 1380  
468 1380  
E--> 470 tgtctgaggt cgcataacgc cccatggctc aaggaagccg ccgggagctg cccgcaggcc 1440  
471 1440  
E--> 473 ctgggccggc tgtctcgtg cgatgctctg ctggtcgagg acggaccctg cctccccagc 1500  
474 1500

Same 2nd



## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/533,906

DATE: 11/01/2006

TIME: 12:17:24

Input Set : A:\PTO.SS.txt

Output Set: N:\CRF4\11012006\J533906.raw

E--> 476 ttatcccagg ccagaggctg catgccactg tccccggcag cgccaacccc tgcttggctg  
477 1560

E--> 479 ttatggtgct ggtaataagc ctgcagccc aggtccagag cccccggcga gccggtccca  
480 1620

E--> 482 taaccggccc cctgcccctg cccctgctcc tgctcctccc cttcggggccc cctcctcctg  
483 1680

E--> 485 caaaacccgc tcccgaagcg gcgctgccgt ctgcagccac gcggggggcgc gcgggagctc  
486 1740

E--> 488 tgcggggcgct ggaacctgca gaccgggcct cggtcagctg ggagggggccc gccccggcac  
489 1800

E--> 491 aaagcaccca tgggaataaaa ggccaagccg cgacagtcag caaaaaaaaaa aaaaaaaaaa  
492 1860

E--> 494 aaaaaaaaaa aaaaaaaaaa  
495 1878

654 <210> SEQ ID NO: 10  
655 <211> LENGTH: 27  
656 <212> TYPE: DNA  
657 <213> ORGANISM: Unknown  
659 <220> FEATURE:  
660 <223> OTHER INFORMATION: Unknown  
662 <400> SEQUENCE: 10

E--> 663 ggcccagcat gagaggcccg gccgtcc  
664 27

667 <210> SEQ ID NO: 11  
668 <211> LENGTH: 27  
669 <212> TYPE: DNA  
670 <213> ORGANISM: Unknown  
672 <220> FEATURE:  
673 <223> OTHER INFORMATION: Unknown  
675 <400> SEQUENCE: 11

E--> 676 ggacggccgg gcctctcatg ctggggc  
677 27

680 <210> SEQ ID NO: 12  
681 <211> LENGTH: 20  
682 <212> TYPE: DNA  
683 <213> ORGANISM: Unknown  
685 <220> FEATURE:  
686 <223> OTHER INFORMATION: Unknown  
688 <400> SEQUENCE: 12

E--> 689 taatacgact cactataggg  
690 20

693 <210> SEQ ID NO: 13  
694 <211> LENGTH: 18  
695 <212> TYPE: DNA  
696 <213> ORGANISM: Unknown  
698 <220> FEATURE:  
699 <223> OTHER INFORMATION: Unknown  
701 <400> SEQUENCE: 13

E--> 702 tccgagatct ggacgagc

Same

Same error

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/533,906

DATE: 11/01/2006

TIME: 12:17:24

Input Set : A:\PTO.SS.txt

Output Set: N:\CRF4\11012006\J533906.raw

703 18  
706 <210> SEQ ID NO: 14  
707 <211> LENGTH: 40  
708 <212> TYPE: DNA  
709 <213> ORGANISM: Unknown  
711 <220> FEATURE:  
712 <223> OTHER INFORMATION: Unknown  
714 <400> SEQUENCE: 14  
E--> 715 ggcccgagac ggggtgaagg cacgctacat gacccccgcc 40  
716 40  
719 <210> SEQ ID NO: 15  
720 <211> LENGTH: 23  
721 <212> TYPE: DNA  
722 <213> ORGANISM: Unknown  
724 <220> FEATURE:  
725 <223> OTHER INFORMATION: Unknown  
727 <400> SEQUENCE: 15  
E--> 728 tggcccgtgg agtccggctc ccc 23  
729 23  
746 <210> SEQ ID NO: 17  
747 <211> LENGTH: 31  
748 <212> TYPE: DNA  
749 <213> ORGANISM: Unknown  
751 <220> FEATURE:  
752 <223> OTHER INFORMATION: Unknown  
754 <400> SEQUENCE: 17  
E--> 755 atggatccat gagaggcccg gccgtcctcc t 31  
756 31  
759 <210> SEQ ID NO: 18  
760 <211> LENGTH: 31  
761 <212> TYPE: DNA  
762 <213> ORGANISM: Unknown  
764 <220> FEATURE:  
765 <223> OTHER INFORMATION: Unknown  
767 <400> SEQUENCE: 18  
E--> 768 acgtcgactt accagcacca taacagccaa g 31  
769 31  
E--> 774 1

deleted

Same Error

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/533,906

DATE: 11/01/2006

TIME: 12:17:25

Input Set : A:\PTO.SS.txt

Output Set: N:\CRF4\11012006\J533906.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:154 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:2  
M:254 Repeated in SeqNo=2  
L:401 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:5  
M:254 Repeated in SeqNo=5  
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:900  
L:663 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:27 SEQ:10  
L:676 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:27 SEQ:11  
L:689 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:20 SEQ:12  
L:702 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:13  
L:715 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:40 SEQ:14  
L:728 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:23 SEQ:15  
L:755 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:31 SEQ:17  
L:768 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:31 SEQ:18  
M:254 Repeated in SeqNo=18